



Australian Government

Assessment Requirements for UEEIC0044 Troubleshoot measuring and analysis systems

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including
 - using risk control measures
- completing repair activities
- dealing with unplanned situations safely and with the approval of relevant person/s
- determining need for inspecting, testing and measuring live work
- determining sources of materials required for work
- dismantling equipment components and storing to protect against loss or damage
- finding faults efficiently
- inspecting and isolating apparatus
- obtaining scope of measuring and analysis systems fault
- obtaining tools, equipment and testing devices and checking for correct operation and safety
- preparing to find and repair faults
- providing written justification for the repairs
- rechecking and confirming faulty component status
- replacing components without damage using sustainable energy practices.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- isolation procedures
- problem-solving techniques
- relevant industry measuring and analysis systems standards
- relevant manufacturer specifications and operating instructions
- job safety assessments or risk mitigation processes
- relevant tools, equipment and testing devices

- relevant troubleshooting, measuring and analysis systems, including:
 - applications of measurement circuits
 - circuit components and configurations
 - principles of measurement
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace instructions, policies and procedures
- sustainable energy principles.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, facilities and equipment currently used in industry
- resources that reflect current industry practices in relation to finding and repairing faults in measuring and analysis systems
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>